

What is claimed is:

1. A method of driving an SLR camera, having a film, using a single motor to perform a film wind operation, a film rewind operation, a mirror-shutter charge
5 operation, and a mirror release operation in which a quick-return mirror rises upon a shutter release, said method comprising:

driving said motor forward to perform said mirror
release operation upon a detection of said shutter
10 release;

driving said motor in reverse to firstly switch a
motor drive system including said motor to a mirror-
shutter charge system upon detecting a signal indicating
that an operation of a shutter is completed, and
15 subsequently performing said mirror-shutter charge
operation;

driving said motor to continue rotating in reverse
to switch said motor drive system from said mirror-shutter
charge system to a film wind system even after said
20 quick-return mirror returns to a viewing position by said
mirror-shutter charge operation;

driving said motor to continue rotating in reverse
to perform said film wind operation;

driving said motor forward for a predetermined
25 period of time to switch said motor drive system from said

film wind system to a film rewind system upon detecting a signal indicating that no more frames of said film are available; and

driving said motor in reverse to perform said film
5 rewind operation.

2. The method of driving the SLR camera according to claim 1, wherein said method further comprises:

putting said motor drive system into a state where said motor drive system is prevented from switching to
10 said mirror-shutter charge system when said film wind operation and film rewind operation are performed; and

putting said motor drive system into a state where said motor drive system is allowed to switch to said mirror-shutter charge system in conjunction with a rising
15 motion of said quick-return mirror upon said mirror release operation.

3. A driving system for an SLR camera, having a film, using a single motor to perform a film wind operation, a film rewind operation, a mirror-shutter charge
20 operation, and a mirror release operation in which a quick-return mirror rises upon a shutter release, said driving system comprising:

a release device which drives said motor forward to perform said mirror release operation upon a detection
25 of said shutter release;

a switch/charge device which is actuated upon said motor being driven in reverse to firstly switch a motor drive system including said motor to a mirror-shutter charge system upon detecting a signal indicating that an operation of a shutter is completed, and subsequently perform said mirror-shutter charge operation;

a first switch device which drives said motor to continue rotating reverse to switch said motor drive system from said mirror-shutter charge system to a film wind system even after said quick-return mirror returns to a viewing position by said mirror-shutter charge operation;

a film wind device which drives said motor to continue rotating reverse to perform said film wind operation;

a second switch device which drives said motor forward for a predetermined period of time to switch said motor drive system from said film wind system to a film rewind system upon detecting a signal indicating that no more film frame is available; and

a film rewind device which drives said motor reverse to perform said film rewind operation.

4. The driving system for the SLR camera according to claim 3, further comprising:

a locking device which puts said motor drive system

into a state where said motor drive system is prevented from switching to said mirror-shutter charge system when said film wind operation and film rewind operation are performed; and

5 an unlocking device which puts said motor drive system into a state where said motor drive system is allowed to switch to said mirror-shutter charge system in conjunction with a rising motion of said quick-return mirror upon said mirror release operation.

10 5. An SLR camera using a single motor to perform a film wind operation, a film rewind operation, a mirror-shutter charge operation, and a mirror release operation in which a quick-return mirror rises upon a shutter release, said SLR camera comprising:

15 a film-wind gear mechanism used for said film wind operation;

 a film-rewind gear mechanism used for said film rewind operation;

 a mirror-shutter charge gear mechanism used for said
20 mirror release operation;

 a mirror release gear mechanism used for said mirror release operation;

 a motor drive gear mechanism which is selectively engaged with said film wind gear mechanism, said film
25 rewind gear mechanism, said mirror-shutter charge gear

mechanism and said mirror release gear mechanism; and
a motor controller for controlling operation of said
motor,

wherein said motor controller drives said motor
5 forward to bring said motor drive gear mechanism into
engagement with said mirror release gear mechanism to
perform said mirror release operation upon a detection
of said shutter release, a rising motion of said
quick-return mirror making it possible to bring said motor
10 drive gear mechanism into engagement with said
mirror-shutter charge gear mechanism;

wherein said motor controller drives said motor in
reverse to firstly bring said motor drive gear mechanism
into engagement with said mirror-shutter charge gear
15 mechanism upon detecting a signal indicating that an
operation of a shutter is completed, and subsequently
perform said mirror-shutter charge operation;

wherein said motor controller drives said motor to
continue rotating in reverse to bring said motor drive
20 gear mechanism into engagement with said film wind gear
mechanism even after said quick-return mirror returns to
a viewing position by said mirror-shutter charge
operation;

wherein said motor controller drives said motor to
25 continue rotating in reverse to perform said film wind

operation;

wherein said motor controller drives said motor forward for a predetermined period of time to bring said motor drive gear mechanism into engagement with said film
5 rewind gear mechanism upon detecting a signal indicating that no more film frame is available; and

wherein said motor controller drives said motor reverse to perform said film rewind operation.

6. A driving system for an SLR camera comprising:
10 a motor;

a release mechanism which performs a mirror-shutter release operation in which a quick-return mirror is removed from a viewing position, on a photographing path, to raised position, out of said photographing path, and
15 a mechanical stopper for a shutter is released;

a charge mechanism which performs a mirror-shutter charge operation in which said quick-return mirror is returned to said viewing position and said shutter is charged;

20 a film-wind mechanism which performs a film wind operation;

a film rewind mechanism which performs a film rewind operation; and

a switching device provided between said motor and
25 said release mechanism, said charge mechanism, said

film-wind mechanism, and said film rewind mechanism,
wherein said mirror-shutter release operation is
performed by said release mechanism when said motor drives
forward; and wherein said mirror-shutter charge
5 operation, said film wind operation and said film rewind
operation are performed by said charge mechanism, said
film wind mechanism and said film rewind mechanism,
respectively, when said motor drives in reverse after said
release operation is completed.